

XACML 3.0 Intellectual Property Control (IPC) Profile Version 1.0

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Related work:

This specification is related to:

eXtensible Access Control Markup Language (XACML)

Abstract:

This specification defines a profile for the use of XACML in expressing policies for intellectual property control (IPC). It defines standard attribute identifiers useful in such policies, and recommends attribute value ranges for certain attributes.

Status:

This document was last revised or approved by the eXtensible Access Control Markup Language (XACML) TC on the above date. The level of approval is also listed above. Check the "Latest Version" or "Latest Approved Version" location noted above for possible later revisions of this document.

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1 Introduction

2 {Non-normative}

- 3 This specification defines a profile for the use of the OASIS eXtensible Access Control Markup Language
- 4 (XACML) [XACML] to write and enforce policies for the purpose of providing access control for resources
- 5 deemed intellectual property (hereinafter referred to as IP). Use of this profile requires no changes or
- 6 extensions to the [XACML] standard.
- 7 This specification begins with a non-normative discussion of the topics and terms of interest in this profile.
- 8 The normative section of the specification describes the attributes defined by this profile and provides
- 9 recommended usage patterns for attribute values.
- 10 This specification assumes the reader is somewhat familiar with XACML. A brief overview sufficient to
- 11 understand these examples is available in [XACMLIntro].
- 12 For our purposes, IP may be defined as legal property rights over mental creations. IP owners can
- 13 receive exclusive rights to their creations, if certain conditions are met. These exclusive rights can be
- exploited by the owner for profit, either directly through sales of products, or indirectly through licensing.
- 15 IP is an asset; perhaps the most valuable asset an organization has. IP can be licensed to other
- organizations in cases of outsourcing and/or to generate revenue from IP sharing arrangements.
- 17 IP value tends to increase when properly protected, though there are differing points of diminishing
- returns. IP protection doesn't guarantee security; it just provides a compensation mechanism for cases of
- 19 unlawful exploitation. IP valuation and protection are often criteria for venture capital investors.
- 20 Broadly speaking, there are four main categories of intellectual property: copyrights, trademarks, trade
- 21 secrets, and patents. Copyrights confer time-limited exclusive rights of ownership and/or use to the
- creator of the work. A copyright is typically used to protect artistic works such as photographs, music,
- 23 books, etc. Copyrights are internationally recognized, though there are differences in the terms and
- 24 enforcement.
- 25 Trademarks are the IP protection scheme of names, logos, symbols, products, etc. For example, in the
- 26 U.S. there are 2 main types:
- 27 For general usage, or for not-yet-registered trademarks ™
- For trademarks registered with the USPTO ®
- 29 Trademarks are also internationally recognized through the Madrid system, which requires registration
- 30 through the World Intellectual Property Organization (WIPO), a United Nations agency. The World Trade
- 31 Organization also sets legal minimum standards for IP protection among member nations.
- 32 Patents are property rights granted to an inventor to prevent others from profiting from the invention for a
- 33 limited time in exchange for public disclosure of the invention when the patent is granted. Patents apply
- 34 to processes, machines, articles of manufacture, or composition of matter (including biological), or derived
- 35 innovations. Patents require detailed disclosure of information, designs, processes, etc. Patents are
- administered in U.S. by the USPTO, and are internationally recognized by WTO TRIPS, WIPO, and
- 37 European Patent Convention.
- 38 Trade secrets are IP protection of formulae, processes, designs, information, etc. that are not easily
- 39 obtainable that a business uses for competitive advantage. They are often protected by legal contracts
- 40 such as non-disclosure agreements, non-compete agreements, or proprietary information agreements.
- 41 Trade secrets are the most common form of industrial IP protection, and outnumber patents. However,
- 42 trade secrets are often categorized as "proprietary" information, and may not be discovered as trade
- 43 secrets unless litigated. They are not federally protected in the U.S., though most states have adopted
- 44 the Uniform Trade Secrets Act. However, theft of trade secrets is prohibited by U.S. Economic Espionage
- 45 Act of 1996. Trade secret status requires less disclosure than patents. Trade secrets are well protected
- 46 by European Patent Convention as "know how". No international treaties protect trade secrets, though
- 47 WTO TRIPS, GATT, and NAFTA have provisions for trade secret protection.
- Other IP related concepts, such as *public domain, PII, proprietary, and third-party proprietary* will be
- 49 defined in the glossary section.

- The attributes and glossary terms defined below are not an exclusive or comprehensive list of all the
- 51 attributes that may be required for rendering authorization decisions concerning IP. For example, PDPs
- would have to evaluate other entitlements, such as group membership, from PIPs. This profile is meant
- 53 as a point of reference for implementing IP controls, and may be extended as needed for organizational
- 54 purposes. Software vendors who choose to implement this profile should take the attributes herein as a
- 55 framework for IP controls, but allow individual implementers some flexibility in constructing their own
- 56 XACML-based authorization policies and PDPs.
- 57 The goal of this profile is to create a framework of common IP-related attributes upon which authorization
- 58 decisions can be rendered. This profile will also provide XACML software developers and authorization
- 59 policy writers guidance on supporting IP control use cases.

1.1 Glossary

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The entity which is responsible for authorizing the transaction. This can be a particular company, organization, or contract.

Copyright

A form of limited and temporary government-granted monopoly which gives the creator of an original work some rights for a certain time period in relation to that work, including its publication, distribution and adaptation; after which time the work is said to enter the public domain. Copyright applies to concrete expressions of information, but not the information itself.

Country

A national political administrative unit recognized for diplomatic and trade purposes by governments and other international organizations.

72 **EAR**

Export Administration Regulations, US laws and regulations administered by the Department of Commerce.

IP-Designee

A designation for the persons or entities with designated intellectual property rights.

77 IP-Owner

A designation for the entity which owns the intellectual property.

79 **ITAR**

International Traffic in Arms Regulations; USA laws and regulations administered by the Department of State.

82 License

An agreement granting rights in Intellectual Property.

Location

The *location* of the requesting principal. Values of acceptable locations may be specified by legal contract, and may be specific to implementations. PDPs and PEPs SHOULD be configured for mutual understanding of said values.

Nationality

A country of which a person is a citizen.

90 Organization

A company or other legal entity of which a person can be an employee or agent.

Patent

A set of exclusive rights granted by a government to an inventor or his assignee for a limited period of time in exchange for a disclosure of an invention.

95 **PII**

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96 Personally identifiable information. For example, U.S. Social Security Numbers.

97 Proprietary

Information protected by an organization by technical controls. May sometimes be used synonymously with "trade secret".

Public domain (PUB)

Information that has been demoted from copyright, trademark, trade secret, or patented status. No intellectual property controls are usually necessary for items considered public domain.

Third-party proprietary

Intellectual property which has been legally entrusted to the care and use of another organization.

Trademark

A distinctive sign or indicator used by an individual, business organization, or other legal entity to identify that the products, and/or services to consumers with which the trademark appears originate from a unique source of origin, and to distinguish its products or services from those of other entities.

Trade secret

A formula, practice, process, design, instrument, pattern, or compilation of information which is not generally known or reasonably ascertainable, by which a business can obtain an economic advantage over competitors or customers. In some jurisdictions, such secrets are referred to as "confidential information" or "classified information".

1.2 Terminology

- 116 The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD
- 117 NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described
- 118 in [RFC2119].

1.3 Normative References

120 [RFC2119] S. Bradner, <i>Ke</i>	ey words for use in RFCs to Indicate Requirement Levels,
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http://www.ietf.org/rfc/rfc2119.txt, IETF RFC 2119, March 1997.

122 [XACML] OASIS Committee Draft 01, eXtensible Access Control Markup Language

(XACML) Version 3.0, 16 April 2009. http://docs.oasis-open.org/xacml/3.0/xacml-

3.0-core-spec-cd-1-en.html

1.4 Non-Normative References

126 **[XACMLIntro]** OASIS XACML TC, A Brief Introduction to XACML, 14 March 2003,

127 http://www.oasis-

128 open.org/committees/download.php/2713/Brief_Introduction_to_XACML.html

129 **[ISO3166]** ISO 3166 Maintenance agency (ISO 3166/MA),

http://www.iso.org/iso/country_codes.htm

132 **1.5 Scope**

- 133 Many intellectual property access control decisions can be made on the basis of the resource's
- 134 copyright, trademark, patent, trade secret, or other custom classification. This profile defines standard
- 135 XACML attributes for these properties, and recommends the use of standardized attribute values.
- 136 In practice, an organization's intellectual property protection policies will be a mixture of rules derived
- 137 from laws and regulations, along with enterprise-specific rules derived from government-approved
- bilateral or multilateral agreements with other organizations.

139	1.6 Use cases
140 141	PDPs may need to consider intellectual property protection schemes when evaluating authorization decisions. This profile is designed to provide a framework of additional <attributes> for such decisions.</attributes>
142	
143 144	Copyright use case: an authorization decision depends on whether or not the resource in question is protected by copyright.
145	
146 147	Trademark use case: an authorization decision depends on whether or not the resource in question is a designated trademark.
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149 150	Patent use case: an authorization decision depends whether or not the resource in question is protected by a patent. Patent designation may follow.
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152 153	Trade secret use case: an authorization decision depends whether or not the resource in question is designated as a trade secret.
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155 156	PII use case: an authorization decision depends whether or not the resource in question is designated as personally identifiable information.
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158 159	Third-party proprietary: an authorization decision depends whether or not the resource in question is designated as a third-party proprietary resource.
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161 162	License: a calling PEP may need to log that a particular license applies to the authorization decision rendered by the PDP.
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164	1.7 Disclaimer
165 166 167 168 169 170	NOTHING IN THIS PROFILE IS INTENDED TO BE A LEGALLY CORRECT INTERPRETATION OR APPLICATION OF U.S. OR ANY GOVERNMENT INTELLECTUAL PROPERTY LAWS OR REGULATIONS. USE OF THIS PROFILE IN AN ACCESS CONTROL SYSTEM DOES NOT CONSTITUTE COMPLIANCE WITH ANY INTELLECTUAL PROPERTY RESTRICTIONS. THIS PROFILE HAS NOT BEEN REVIEWED OR ENDORSED BY THE U.S. OR ANY OTHER GOVERNMENT AGENCIES RESPONSIBLE FOR ENFORCING INTELLECTUAL PROPERTY LAWS, NOR BY ANY LEGAL EXPERT IN THIS FIELD.
172 173	Organizations that use this profile should ensure their intellectual property protection by engaging qualified professional legal services.

2 Profile

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2.1 Resource Attributes

176 **2.1.1 IPC-Type**

177 The IPC-Type classification value shall be designated with the following attribute identifier:

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178 urn:oasis:names:tc:xacml:3.0:ipc:resource:ipc-type
```

- 179 The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. Examples of
- acceptable values of the attribute SHALL be "PUB", "PII", "EC-US", "COPYRIGHT", "TRADEMARK",
- 181 "PATENT", "TRADESECRET", "PROPRIETARY", or "THIRD-PARTY PROPRIETARY". Other values
- may also be defined later, depending on an organization's authorization needs.
- The use of "THIRD-PARTY PROPRIETARY" may introduce ambiguity in a federated authorization model.
- In that case, "PROPRIETARY" with a corresponding **IP-Owner** value SHOULD be used to distinguish IP
- owned by an entity other than the PDP's home organization.

2.1.2 IPC-Data

IPC-Data classification values shall be designated with the following attribute identifier:

```
urn:oasis:names:tc:xacml:3.0:ipc:resource:ipc-data
```

- The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. The purpose of
- this attribute is to convey additional data about the intellectual property resource, such as author names,
- 191 patent numbers, proprietary tracking information, etc.

192 **2.1.3 IP-Owner**

193 IP-Owner classification values shall be designated with the following attribute identifier:

```
urn:oasis:names:tc:xacml:3.0:ipc:resource:ip-owner
```

The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. This attribute

196 names the owner of the IP.

2.1.4 IP-Designee

IP-Designee classification values shall be designated with the following attribute identifier:

```
urn:oasis:names:tc:xacml:3.0:ipc:resource:ip-designee
```

The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. This attribute names the designated custodian of the IP.

2.1.5 EC-US

EC-US classification values shall be designated with the following attribute identifier:

```
urn:oasis:names:tc:xacml:3.0:ipc:resource:ec-us
```

- 205 The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string.
- This attribute can contain export control data related to the EC-US profile. If the IP resource is also export-controlled, it can be indicated here, and invoke the EC-US determination as needed. The attribute
- 208 could also contain the result of an EC-US decision.

2.1.6 License

210 License classification values shall be designated with the following attribute identifier:

211	urn:oasis:names:tc:xacml:3.0:ipc:resource:license	
212	The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string.	
213 214	This attribute can be used to indicate whether or not a specific resource is governed by a license arrangement.	particular
215	2.2 Subject Attributes	
216	2.2.1 Nationality	
217	Nationality classification values shall be designated with the following attribute identifier:	
218	urn:oasis:names:tc:xacml:3.0:ipc:subject:nationality	
219 220	The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. attribute MUST be in the range of 2-letter country codes defined by [ISO3166].	The value of this
221 222	Nationality shall denote the country in which the subject currently has legal status as a "nacitizen.	ational" or
223	2.2.2 Organization	
224	Organization classification values shall be designated with the following attribute identifier	·:
225	urn:oasis:names:tc:xacml:3.0:ipc:subject:organization	
226	The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string.	
227 228	Organization shall denote the organization to which the subject in the request belongs. A scheme such as DUNS SHOULD be used to promote interoperability.	common
229	2.3 Environment Attributes	
230	2.3.1 Location	
231	Location classification values shall be designated with the following attribute identifier:	
232	urn:oasis:names:tc:xacml:3.0:ipc:environment:location	
233	The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string.	
234	2.4 Action Attributes	
235	2.4.1 Storage	
236	Storage classification values shall be designated with the following attribute identifier:	
237	urn:oasis:names:tc:xacml:3.0:ipc:action:storage	
238	The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string.	
239	2.4.2 Physical transmission	
240	Physical transmission classification values shall be designated with the following attribute	identifier:
241	urn:oasis:names:tc:xacml:3.0:ipc:action:physical-transmission	
242	The DataType of this attribute is http://www.w3.org/2001/XMLSchema#boolean.	
243	2.4.3 Electronic transmission	
244	Electronic transmission classification values shall be designated with the following attribute	te identifier:
245	urn:oasis:names:tc:xacml:3.0:ipc:action:electronic-transmissio	n
246	The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string.	
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2.4.4 Encryption type 247 Encryption type classification values shall be designated with the following attribute identifier: 248 249 urn:oasis:names:tc:xacml:3.0:ipc:action:encryption-type 250 The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. 2.4.5 Marking 251 252 Marking classification values shall be designated with the following attribute identifier: 253 urn:oasis:names:tc:xacml:3.0:ipc:action:marking 254 The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. Examples of marks could be "Proprietary", "Confidential", etc. 255 2.4.6 Disposal 256 257 Disposal classification values shall be designated with the following attribute identifier: 258 urn:oasis:names:tc:xacml:3.0:ipc:action:disposal 259 The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. 2.4.7 Authority 260 261 Authority classification values shall be designated with the following attribute identifier: 262 urn:oasis:names:tc:xacml:3.0:ipc:action:authority 263 The DataType of this attribute is http://www.w3.org/2001/XMLSchema#string. 264 This attribute can be used to describe the associated contract or statement of work authorizing the 265 access. Other types of values could be used depending on an organization's needs.

This profile defines the following URN identifiers. 3.1 Profile Identifier The following identifier SHALL be used as the identifier for this profile when an identifier in the form of a URI is required. urn:oasis:names:tc:xacml:3.0:profiles:ipc

3 Identifiers

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274 Conformance to this profile is defined for *policies* and *requests* generated and transmitted within and 275 between XACML systems. 4.1 Attribute Identifiers 276 277 Conformant XACML policies and requests SHALL use the attribute identifiers defined in Section 2 for 278 their specified purpose. 279 4.2 Attribute Values 280 Conformant XACML policies and requests SHALL use attribute values in the specified range or patterns 281 as defined for each attribute in Section 2 (when a range or pattern is specified). 282 NOTE: In order to process conformant XACML policies and requests correctly, PIP and 283 PEP modules may have to translate native data values into the datatypes and formats specified in this profile. 284

4 Conformance

273

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B. Revision History

295 [optional; should not be included in OASIS Standards]

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Revision	Date	Editor	Changes Made
CD 1	6/18/09	John Tolbert	Initial committee draft.